IMPORTANT:
Refer to www.extron.com for the complete user guide, installation instructions, and specifications.

CS 120P • Setup Guide

The Extron CS 120P is a plenum-rated enclosure for the Extron SpeedMount® Ceiling Speaker Systems. The CS 120P enclosure can be installed in both U.S. and metric ceiling grid systems with tiles 2 feet by 2 feet (600 mm by 600 mm) or 2 feet by 4 feet (600 mm by 1200 mm). It is UL 2043 listed for use in air handling ceiling spaces only if used in conjunction with the CS 26T or CS 3T speakers.

This setup guide contains installation information about the CS 120P and provides procedures for installing it in suspended and hard ceilings.

WARNING: May result in serious injury. Installation and service must be performed by authorized personnel only.

AVERTISSEMENT : Risque potentiel de blessure grave. L'installation et l'entretien doivent être effectués par le personnel autorisé uniquement.

NOTES:

- All wiring and electrical connections must conform to all applicable building codes and local ordinances.
- Mounting must conform to all applicable building codes and local ordinances.

Installing the CS 120P Enclosure

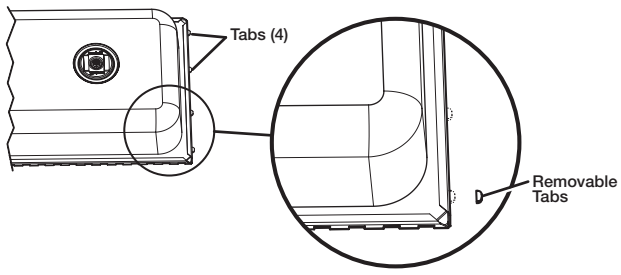
The CS 120P enclosure must first be mounted in the ceiling and wired for use with the CS 26T or CS 3T driver assembly before the driver assembly can be installed.

The minimum ceiling thickness needed to secure the speaker is 3/8 inch (0.95 cm). The maximum ceiling thickness that can be used is 1 and 9/32 inches (3.3 cm).

For multi-trade installations, see **Division of Labor Installation** on page 4.

Mounting the CS 120P in a Suspended Ceiling

1. **Disconnect power** — Power down all attached devices.
2. **Verify the space where the CS 120P will be installed** — Ensure that there is sufficient clearance above the ceiling tile for the CS 120P to rest on top of the tile.
3. **Configure the CS 120P for a U.S. or metric ceiling** — For U.S. ceilings (2 feet by 2 feet or 2 feet by 4 feet), leave the four tabs on the side of the CS 120P intact. For metric ceilings (600 mm by 600 mm or 600 mm by 1200 mm), cut off the tabs.



4. **Remove the adjacent tile** — To facilitate the installation process, remove the tile adjacent to the ceiling tile where the CS 120P will be installed.
5. **Cut a hole for the driver assembly.** Use the provided cutout template to outline the hole to be cut in the ceiling tile as described below.
   a. Remove the ceiling tile.
   b. To find the center of the tile, use a tape measure to measure the space between two opposite corners, and mark the half-way point.

c. Position the center hole of the cutout template directly over the center of the tile that you marked in step 5b.

d. Trace a circle on the ceiling tile as follows:

For installations in ceilings that are NOT fiberglass or when installing the speakers in an open back configuration: Trace a circle around the cutout template.

> **NOTE:** The fiberglass tile adapters are not needed and can be discarded.

For installations in a 1-inch (2.54 cm) thick fiberglass ceiling with the CS 120P:

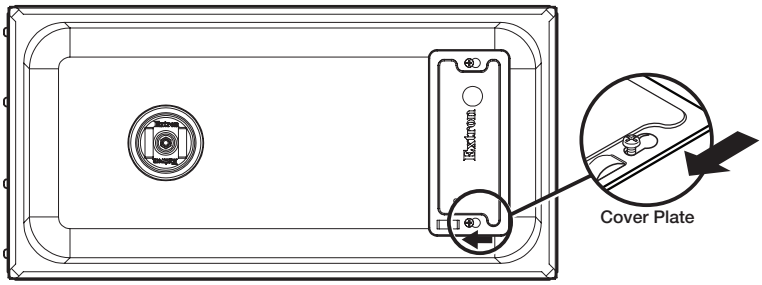
> **NOTE:** A set of fiberglass tile adapters is provided with both the driver assembly and the CS 120P. Only one set is needed to install the driver assembly with the CS 120P kit in a 1-inch (2.54 cm) thick fiberglass tile. The adapter works **only** with 1-inch (2.54 cm) thick fiberglass tile.

1. Place the fiberglass tile adapter around the outer diameter of the template that was positioned in step 5c.
2. Trace a circle around the outer diameter of the adapter.

e. Cut out the circle traced in the ceiling tile.

f. Replace the tile in the ceiling.

6. **Remove the cover plate** — Loosen (do not remove) the two screws on the cover plate and remove it, as shown below.



> **NOTE:** The driver assembly offers optional two-foot V-rails and C-rings for installations without the CS 120P (see the *CS 26T Setup Guide* or the *CS 3T Setup Guide* for details).

7. **Route the cables through the cover plate** — Use one of the methods described below as appropriate.

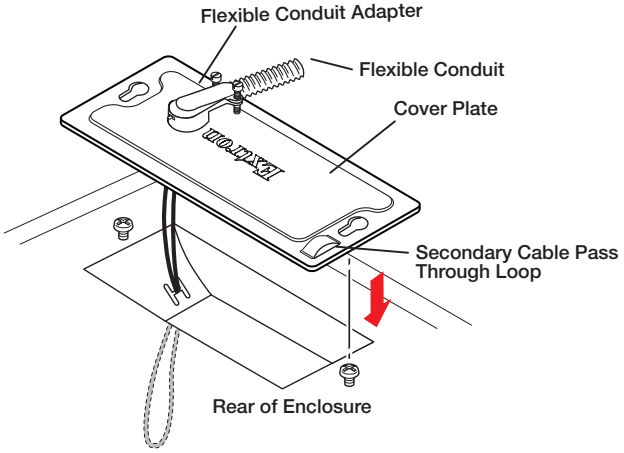
> **NOTES:**
> - The CS 120P is fully UL 2043 compliant only when it is used with a metal conduit or with plenum rated cables.
> - Installation of conduits and conduit adapters should conform to all applicable building codes and local ordinances.

Using a flexible conduit:

a. Route the wires through the conduit.

b. Insert the conduit into the cover plate opening using an appropriate conduit adapter, and secure the conduit to the plate as shown below.

c. Pull the wires out of the conduit and through the cover plate

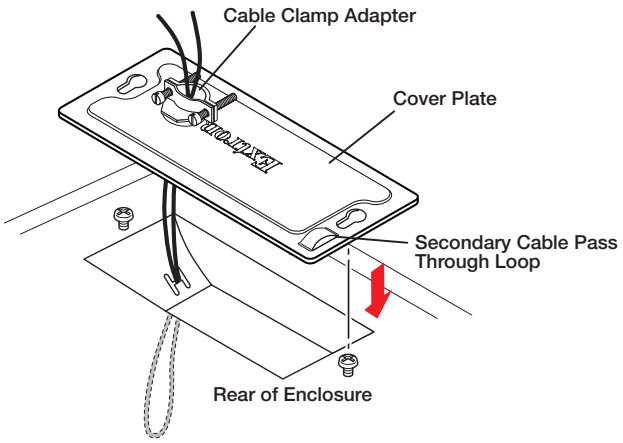


Using speaker wires without a conduit:

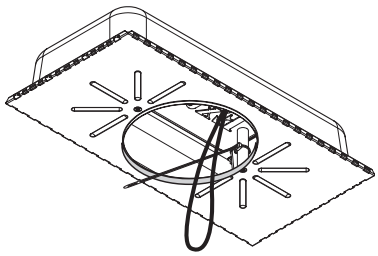
a. Secure the cable clamp adapter (included) to the cover plate.

b. Insert the wires through the clamp and cover plate as shown below.

c. Tighten the clamp screws.



8. **Wire the CS 120P** — Route the wires through the H-shaped opening in the CS 120P. Be sure to leave sufficient slack, as shown on the right.



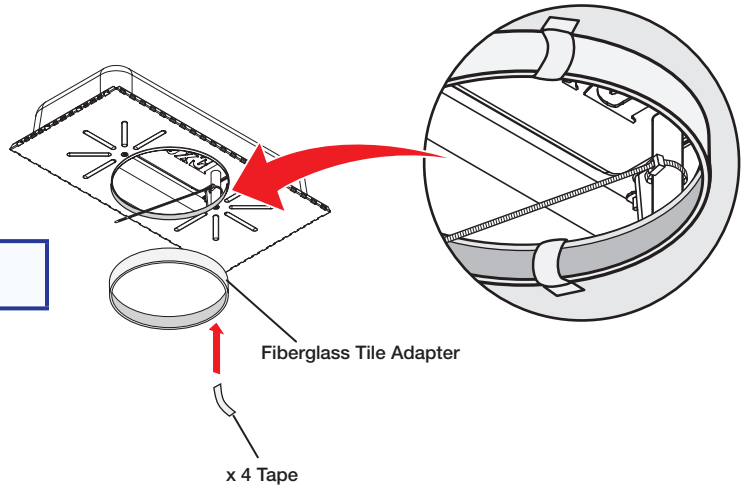
9. **Replace the terminal cover plate** — Reinstall the cover plate onto the CS 120P and tighten the two screws that were loosened in step 6.

10. **If the CS 120P is NOT being installed in a fiberglass ceiling tile,** discard the fiberglass tile adapter and go to step 11.

    If the CS 120P is being installed in a 1-inch (2.54 cm) thick fiberglass ceiling, install the fiberglass ceiling tile adapter. Attach the fiberglass tile adapter to the outer side of the lip of the port hole on the CS 120P as follows:

    a. Cut four strips of adhesive tape (such as duct tape) to the appropriate size.

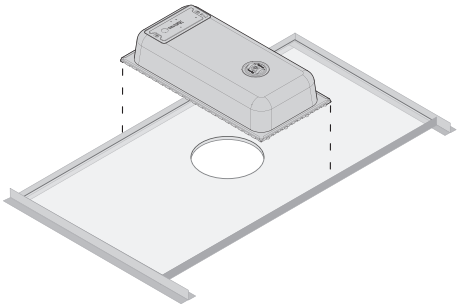
    b. Attach each tape strip starting from the outer side of the CS 120P metal baffle, up and over the port ring adapter, then down to the inner surface of the CS 120P metal baffle, as shown on the right.



> **NOTE:** The tape strips must lie flat against all surfaces, with no ridges or raised edges.

11. **Place the CS 120P into the ceiling grid** — Place the CS 120P over the tile grid, so that the enclosure is safely supported on the two short edges. Ensure that the hole in the tile is aligned with the hole in the CS 120P.

2 feet x 4 feet (600 mm x 1200 mm) Ceiling Grid



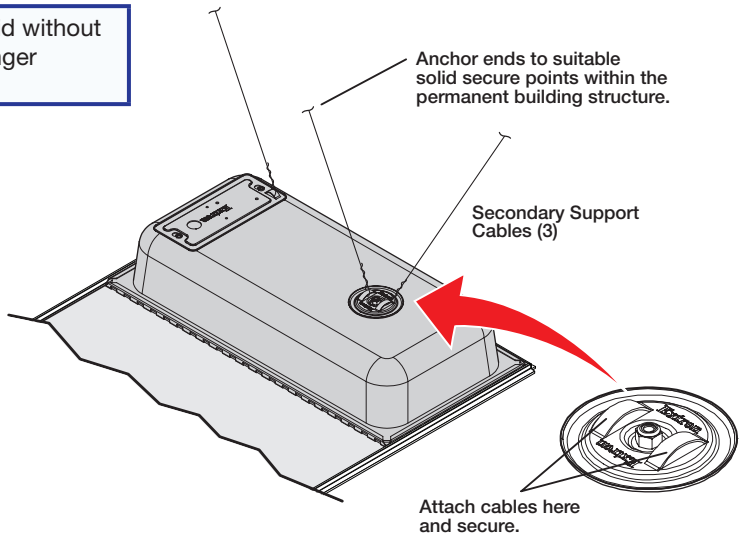
> **NOTE:** 2 feet x 2 feet (600 mm x 600 mm) grid mounting is the same as 2 feet x 4 feet (600 mm x 1200 mm) grid mounting.

12. **Attach safety lines and support cables** — Attach all support lines as shown below.

> **NOTE:** When placing the CS 120P in a micro tile grid without tiles, use the secondary attachment points as hanger suspension points.

> **ATTENTION:**
> - **Do not** allow any slack in the support cables.
> - Ne laissez aucun jeu entre les câbles de support.

> **NOTE:** Observe all applicable building codes and local ordinances when installing the speaker.



13. **See steps 5 through 11 and steps 13 through 15** in the setup guide of the driver assembly to complete installation of the driver assembly in the CS 120P.
14. Replace the adjacent tile that was removed in step 4.

Mounting the CS 120P in a Hard Ceiling

- It is the responsibility of the installer to identify a suitable mounting location and provide the mounting hardware.
- The CS 120P must be mounted as close as possible to the upper surface of the ceiling material.
- The lip of the CS 120P should protrude into the hole cut for the speaker.
- Do not leave a gap between the CS 120P and the ceiling material.

Division of Labor Installation

- The ceiling grid must be in place **before** the enclosure is placed.
- If the tile will be installed later:
  - **Standard ceiling grid:** The CS 120P can rest on the grid.
  - **Micro grid:** The secondary attachment points should be used as the hanger suspension points (see step 12, on the previous page).
- See **Mounting the CS 120P in a Suspended Ceiling** on page 1 for instructions on installing the CS 120P.

NOTE: Follow the steps below after installing the CS 120P and prior to mounting the CS 26T or CS 3T:

1. Insert the free end of the zip tie, located inside of the CS 120P (see Fig. 1), through the secondary attachment point of the speaker (see Fig. 2A or 2B), as shown in the illustrations below.
2. Insert the free end of the zip tie into the locking connector on the opposite end of the zip tie (see Fig. 3). Leave enough slack in the zip tie so that the speaker can be securely installed in the enclosure.
3. Continue with the remaining steps in the speaker setup guide.

Fig. 1

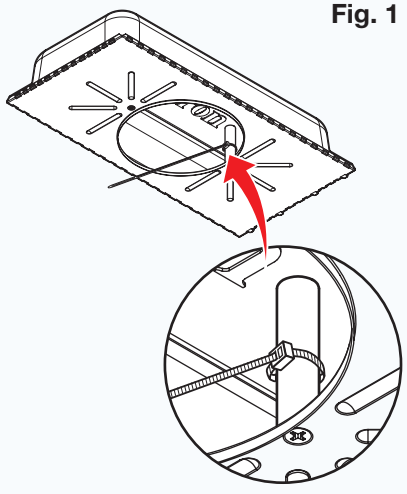
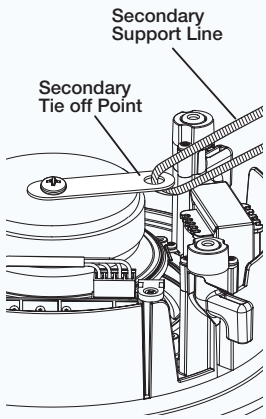
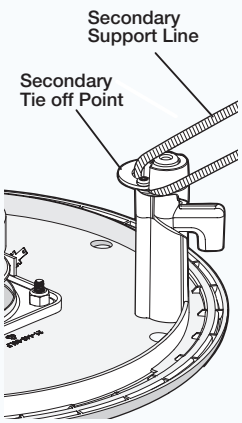


Fig. 2A



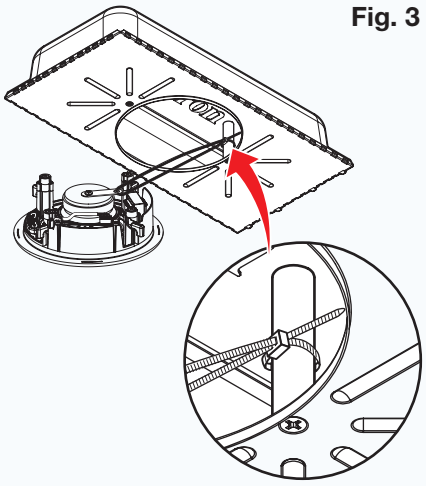
CS 26T

Fig. 2B



CS 3T

Fig. 3



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